Appln. No. 09/882,472
Response dated January 30, 2007
Reply to Office Action of October 30, 2006
Docket No. 6169-157

IBM Docket No. BOC9-2000-0016

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the instant application:

Listing of Claims:

1.   (Currently Amended)   A method for processing speech audio in a network connected client device comprising:

selecting a speech grammar for use in a speech recognition system in the network connected client device;

characterizing the selected speech grammar, said characterizing based upon at least a size of said selected grammar and whether real-time feedback is required in said speech recognition system ~~a pre-determined characterization embedded within the selected speech grammar, the pre-determined characterization specifying at least one of a predetermined complexity of the speech grammar and a preference for processing the speech grammar locally in the client device or remotely in a speech server~~; and,

based on the ~~pre-determined characterization~~ characterizing of the selected speech grammar and a processing power of the network connected client device, determining whether to process the selected speech grammar locally in the network connected client device, or remotely in a speech server in the network,

whereby the selected grammar is processed locally in a low processing power network connected device if the selected grammar is at least one of a small size grammar and a grammar requiring real-time feedback.

2.   (Original)   The method of claim 1, wherein the selecting step comprises:

establishing a communications session with a speech server; and,

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querying said speech server for a speech grammar over said established communications session.

3.   (Previously Presented)   The method of claim 1, wherein the selecting step comprises:

- establishing a communications session with a speech server;

selecting a speech grammar stored in the network connected device; and,

uploading the selected speech grammar to the speech server.

4.   (Original)   The method of claim 2, wherein said selecting step further comprises:

registering said speech grammar in said speech recognition system.

5.   (Currently Amended)   The method of claim 1, wherein said characterizing step comprises:

determining a size of ~~whether~~ said selected speech grammar ~~is a complex speech grammar~~ and determining whether said selected speech grammar requires real-time feedback.

6.   (Currently Amended)   The method of claim 1, wherein said characterizing step comprises:

identifying in said selected speech grammar ~~said~~ an embedded pre-determined characterization.

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7. (Currently Amended) The method of claim 6, wherein said pre-determined characterization <u>specifies at least one of a size of said selected speech grammar and a feedback requirement of said selected speech grammar</u> is a pre-determined complexity.

8. (Original) The method of claim 6, wherein said pre-determined characterization specifies a pre-determined preference for processing said speech grammar either locally or remotely.

9. (Original) The method of claim 8, wherein said pre-determined characterization further specifies a location of a server for remotely processing said speech grammar.

10. (Currently Amended) A network distributable speech grammar configured for distribution to network connected client devices comprising:
    a speech grammar; and,
    a pre-determined characterization of said speech grammar embedded in said speech grammar, said pre-determined characterization specifying a pre-determined preference for processing said speech grammar either locally or remotely<u>, wherein said pre-determined preference is based upon at least a size of said speech grammar, whether real-time feedback is required in a speech recognition system, and a processing power of a network connected client device,</u>
    <u>whereby the speech grammar is processed locally in a low processing power network connected device if the speech grammar is at least one of a small size grammar and a grammar requiring real-time feedback.</u>

11. (Cancelled) The network distributable speech grammar of claim 10, wherein said pre-determined characterization a pre-determined complexity.

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12. (Cancelled)

13. (Currently Amended)   The network distributable speech grammar of claim 10, wherein said pre-determined preference ~~characterization~~ further specifies a location of a server for remotely processing said speech grammar.

14. (Currently Amended)   A machine readable storage, having stored thereon a computer program for processing speech audio in a network connected client device, said computer program having a plurality of code sections executable by a machine for causing the machine to perform the steps of:

selecting a speech grammar for use in a speech recognition system in the network connected client device;

characterizing the selected speech grammar, said characterization based upon at least a size of said selected grammar and whether real-time feedback is required in said speech recognition system ~~a pre-determined characterization embedded within the selected speech grammar, the pre-determined characterization specifying at least one of a predetermined complexity of the speech grammar and a preference for processing the speech grammar locally in the client device or remotely in a speech server~~; and,

based on the ~~pre-determined~~ characterization of the selected speech grammar and a processing power of a network connected client device, determining whether to process the selected speech grammar locally in the network connected client device, or remotely in a speech server in the network,

whereby the selected grammar is processed locally in a low processing power network connected device if the selected grammar is at least one of a small size grammar and a grammar requiring real-time feedback.

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15.   (Original)   The machine readable storage of claim 14, wherein the selecting step comprises:

establishing a communications session with a speech server; and,

querying said speech server for a speech grammar over said established communications session.

16.   (Previously Presented)   The machine readable storage of claim 14, wherein the selecting step comprises:

establishing a communications session with a speech server;

selecting a speech grammar stored in the network connected device; and,

uploading the selected speech grammar to the speech server.

17.   (Original)   The machine readable storage of claim 15, wherein said selecting step further comprises:

registering said speech grammar in said speech recognition system.

18.   (Currently Amended)   The machine readable storage of claim 15, wherein said characterizing step comprises:

determining ~~whether~~ a size of said selected speech grammar ~~is a complex speech grammar~~ and determining whether said selected speech grammar requires real-time feedback.

19.   (Currently Amended)   The machine readable storage of claim 15, wherein said characterizing step comprises:

identifying in said selected speech grammar ~~said~~ an embedded pre-determined characterization.

20.   (Currently Amended)   The machine readable storage of claim 19, wherein said pre-determined characterization ~~is a pre-determined complexity~~ <u>specifies at least one of a size of said selected speech grammar and a feedback requirement of said selected speech grammar</u>.

21.   (Original)   The machine readable storage of claim 19, wherein said pre-determined characterization specifies a pre-determined preference for processing said speech grammar either locally or remotely.

22.   (Original)   The machine readable storage of claim 21, wherein said pre-determined characterization further specifies a location of a server for remotely processing said speech grammar.

23.   (Currently Amended)   A method for processing speech audio in a network connected client device comprising:

selecting a speech grammar for use in a speech recognition system in the network connected client device;

characterizing the selected speech grammar, the characterizing based upon a pre-determined characterization specifying <u>at least of a size of said selected speech grammar and whether real-time feedback is required;</u> ~~a predefined processing complexity of the speech grammar, and~~

determining ~~whether the complexity exceeds~~ a ~~predetermined threshold~~ processing capability of the network connected client device; and,

processing the speech grammar <u>locally in a low processing capability network connected device if the selected grammar is at least one of a small size grammar and a</u>

grammar requiring real-time feedback ~~remotely in a speech server in the network if the~~

~~predefined processing complexity exceeds the predetermined threshold.~~

24.   (Currently Amended)   A method for processing speech audio in a network connected client device comprising:

selecting a speech grammar for use in a speech recognition system in the network connected client device;

identifying a processing preference based upon a predetermined characterization embedded in said in the speech grammar, said predetermined characterization specifying a predetermined complexity of the speech grammar relative to processing resources of the network connected client device, wherein said complexity is based on at least one of a size of the selected grammar and whether real-time feedback is required; and,

determining whether to process the speech grammar locally in the network connected client device or remotely in a speech server in the network based on the predetermined preference specified by the predetermined characterization and a processing power of the network connected client device,

whereby the selected grammar is processed locally in a low processing power network connected device if the selected grammar is at least one of a small size grammar and a grammar requiring real-time feedback.

25.   (Previously Presented)   The method of Claim 24, wherein the processing preference specifies a location of the speech server for remotely processing the speech grammar.